I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on October 8, 2000.

Roma R beliand.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Wallace T.Y. Tang

Serial No.: 07/996.817

Examiner:

H. Pham

Filed:

December 28, 1992

Art Unit:

2505

For:

IN-SITU REAL-TIME MONITORING TECHNIQUE AND APPARATUS FOR ENDPOINT DETECTION OF THIN FILMS DURING CHEMICAL/MECHANICAL POLISHING PLANARIZATION

Assistant Commissioner for Patents Washington, D.C. 20231

REVOCATION AND NEW APPOINTMENT OF POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

The undersigned, being sole owner of total interest of this application, hereby revokes all powers of attorney previously granted in this application and hereby appoints

Joseph Bach	37,771	Robert W. Mulcahy	25,436
Sarah Brashears	37,087	Peter J. Sgarbossa	25,610
Lawrence Edelman	25,226	Donald Verplancken	33,217
Michael Einschlag	29,301	James C. Wilson	35,412
Raymond Kam-On Kwong	37,165	David J. Goren	34,609
Frederick H. Rabin	24,488	William J. Egan	28,411
William E. Booth	28,933	Eric L. Prahl	32,590

as attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the United States Patent and Trademark Office connected

therewith, and hereby request that all correspondence regarding this application be sent to:

Applied Materials, Incorporated
Attn: Patent Group

2881 Scott Blyd., M/S 2061 Santa Clara, CA 95050

Tel: (408) 235-6536 Facsimile: (408) 986-3090

Respectfully submitted,

Signature:

Printed Name Joseph J. Sweet

Title: Group Vice President, Legal Affairs

& Intellectual Property

Date:

CERTIFICATE UNDER 37 CFR 3.73(b)

Applicant: Wallace T.Y. Tang

Application No./Patent No.: 07/996,817

For: IN-SITU REAL-TIME MONITORING TECHNIQUE AND APPARATUS FOR ENDPOINT DETECTION OF THIN FILMS DURING CHEMICAL/MECHANICAL POLISHING PLANARIZATION

APPLIED MATERIALS, INC., a corporation,

Recl

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. [}		esignment	was recorded	entor(s) of the patent application identified above. in the Patent and Trademark Office at Reel, copy thereof is attached.		
OR							
B. [1	A chi	ain of title urent assig	from the inve	ntor(s) of the patent application identified above, to below:		
		1.	From: The docs Reel	To: ument was rec , Frame	corded in the Patent and Trademark Office at , or for which a copy thereof is attached.		
		2.	From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.				
		3.	From:	To:	corded in the Potent and Trademovic Office of		

[X] Copies of assignments or other documents in the chain of title are attached.

. Frame

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

108441 v2/HN 25_9021 DOC I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: Sept 26, 2000

Name: Joseph J. Sweeney

Title: Group Vice President, Legal Affairy & Intellectual Property

Signature:

PATENT ASSIGNMENT

WHEREAS, WALLACE T. Y. TANG, having a residence at P.O. Box 4408, 5 Decenwood Trail, Warren, NJ 07059 (hereinafter referred to as "Assignor") owns right, title, and interest in and to U.S. Patent Application Number 07/996,817, filed on December 28, 1992, entitled IN-SITU REAL-TIME MONITORING TECHNIQUE AND APPARATUS FOR ENDPOINT DETECTION OF THIN FILMS DURING CHEMICAL/MECHANICAL POLISHING PLANARIZATION (hereinafter referred to as "Patent Application"); and

WHEREAS, APPLIED MATERIALS, INC., having offices at P.O. Box 450A, Santa Clara, CA 95052 (hereinafter referred to as "Assignee"), desires to acquire Assignor's entire right, title, and interest in and to said Patent Application, and to the Inventions disclosed in said Patent Application, and to the Future Patents (as hereinafter defined).

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, Assignor's full right, title, and interest in and to said Patent Application, and to all future patents which may be granted therefor throughout the world, and all division, reissues, substitutions, continuations, continuations-in-part and extensions thereof (collectively, "Future Patents"), together with all claims, causes of action and damages for past infringement, if any, of said Patent Application and Future Patents; and Assignor hereby authorizes and requests the United States Patent and Trademark Office and other patent offices throughout the world to issue all Future Patents resulting therefrom insofar as Assignor's interest is concerned, to the said Assignes of Assignor's entire right, title, and interest.

Assignor also hereby sells and assignors to Assignoe, its successors, assigns and legal representatives Assignor's full right, title, and interest to inventions disclosed in said Patent Application and Funire Patents throughout the world, including the right to file applications and obtain patents, unliny models, industrial models and designs for said inventions in Assigner's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith reasonably necessary to perfect such right, title, and interest in Assignee, its successors, assigns and legal representatives.

Assignor hereby further agrees that Assignor will communicate to said Assignee, or to its successors, assigns and legal representatives, any facts known to Assignor respecting any improvements, and, at the expense of said Assignoe, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, relative and substitute applications, make all lawful oaths, and exert reasonable efforts to vest title in said Assignee and to aid said Assignee, its successors, assigns and legal representatives in obtaining and enforcing proper protection for said Patent Application and Future Patents in such countries as Assignee may elect.

IN WITNESS WHEREOF, Assigner has caused this instrument to be executed effective July 3/_, 2000.

By: Walless T. Y. Tans

UTILITY PATE OR DESIGN SOLE OR JOINT

2/23/93

WEGNER, CANTOR, MUELLER & PLAYER: UNITED STATES LETTERS PATENT DECLARATION AND POWER OF ATTORNEY

ATTORNEY'S DOCKET NO

P-2921-23619

As a below named inventor, I declare that I believe I am the original, first and sole inventor if only one name is listed at item 201 below, or a joint inventor

š	international (PCI I have reviewed above. I acknowledge the I hereby claim the affing date before it hereby claim if construction-in-part, in the manner provide material to pater application(s) identifications.	mended on	(for declaration) the contents of the above-in all information known to make, under Title 35, United States C ubject matter of any of the arrangraph of Title 35, United States C arrangraph of Title 37, Code of Fede below and the national or in the states of the state		panying application pa- erial to patentability as a s, §119, of any foreign; of any U.S. application of is not disclosed in the ide, §112. I acknowled tions, §1.55 which beceptional filing date of this	and as amend the claims, as amend defined in Title 37. Co application(s) for pation(s) listed in item 1 he prior U.S. application ame available between a application.	ed on	.(if any) noment referred to Regulations, §1.55 is certificate naving this application is a d in item 105 below on known to me to te of the pnor U.S.	
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l	COUNT	RY	APPLICATION NUMBER		DATE OF I		PRIORIT	RITY CLAIMED NO	
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 ov	THIS APPLICATION CONTINUATION DIVISION VER OF ATTORNEY Trademark Office co	OF PR	NTHUATION IN PART ISOR U.S. APPLICATION Ventor, I hereby appoint the	following a	SERIAL HO	this application and	FILED	ness in the Patent	
	HAROLD (Registration FRANKLIN	D. WOLFFE No. 19,724	HI Re DO	gistration I UGLAS P. Igistration I	CANTOR No. 24,392 MUELLER No. 30,300	Regi	MUTH A. WEG stration No. 17 LIAM E. PLAY stration No. 31	.033 ER .409	
P.O. Sox Washington, D.C						202-887	202-887-0400		
***	or(a) name must include at	least one whebbnevs	uled first or middle name.						
1	FULL NAME OF INVENTOR	LAST NAME FIRST WA			we lace	MIDDLE T.	ENAME Y.		
1	RESIDENCE CITY OR OTHER LOCATION CITIZENSHIP Warren		SI	1 1		TZENSHIP USA			
POST OFFICE POST OFFICE ADDRESS ADDRESS P. O. Box 4408, 5 Deerwood Trail									
1	FULL NAME OF INVENTOR	LAST NAME			· · · · · · · · · · · · · · · · · · ·		DUE NAME		
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	FULL NAME OF INVENTOR	LAST NAME		FIRST NA	ME	riodre.	NAME		
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SIGNATURE OF INVENTOR 202 SIGNATURE OF INVENTOR 203

DATE